NOV 0 1 2004
PATENT & TRADEMARK OFFICE

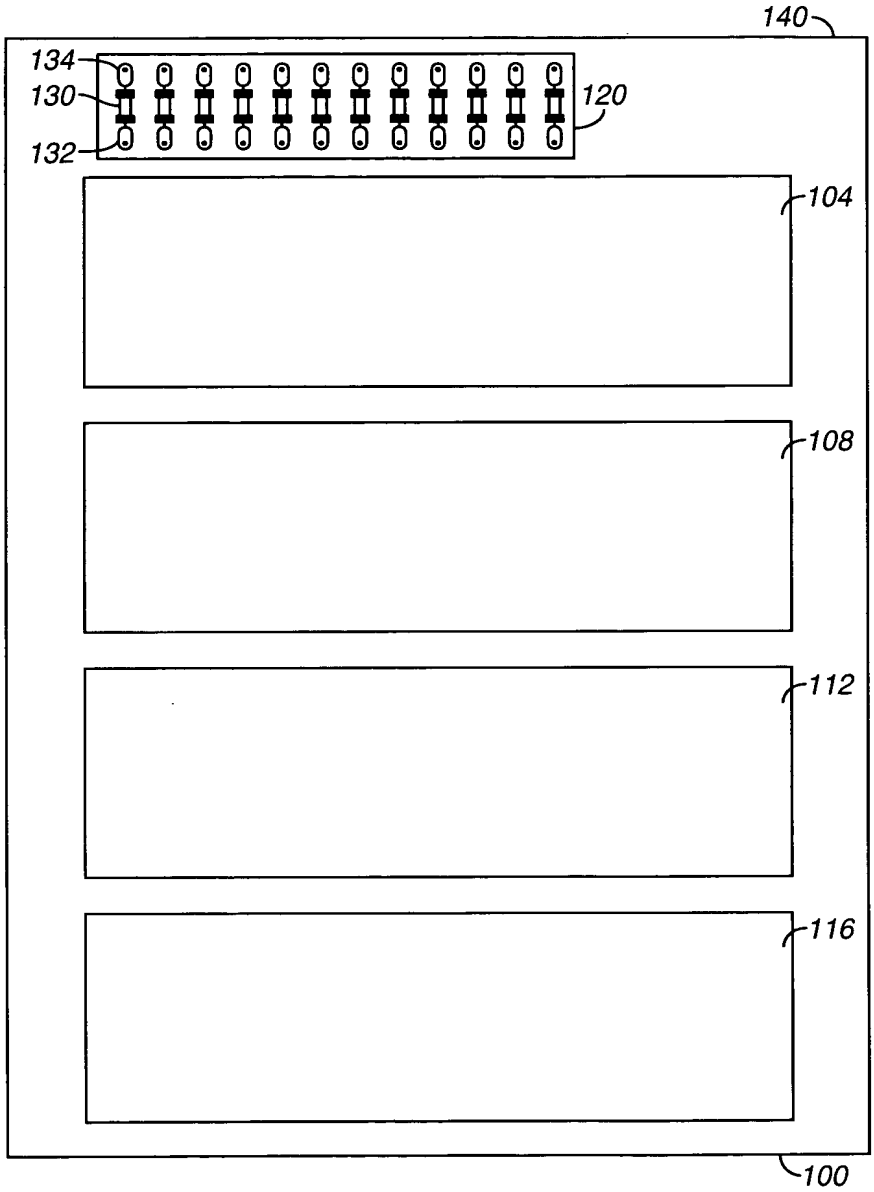

FIG. 1

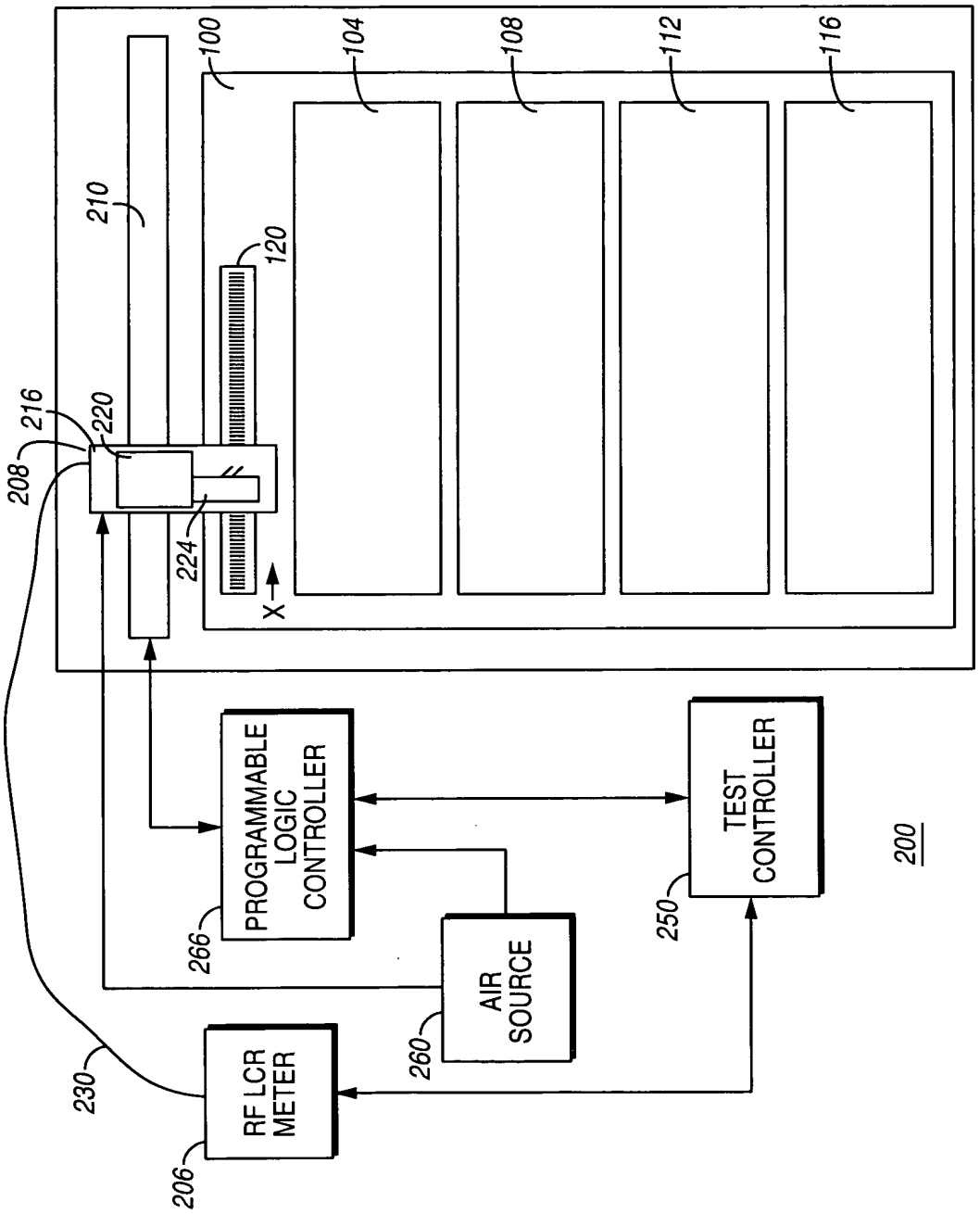
100
104
108
112
116
210
120
216
220
208
224
X
PROGRAMMABLE LOGIC CONTROLLER
266
TEST CONTROLLER
250
AIR SOURCE
260
RF LCR METER
230
206
200

FIG. 2

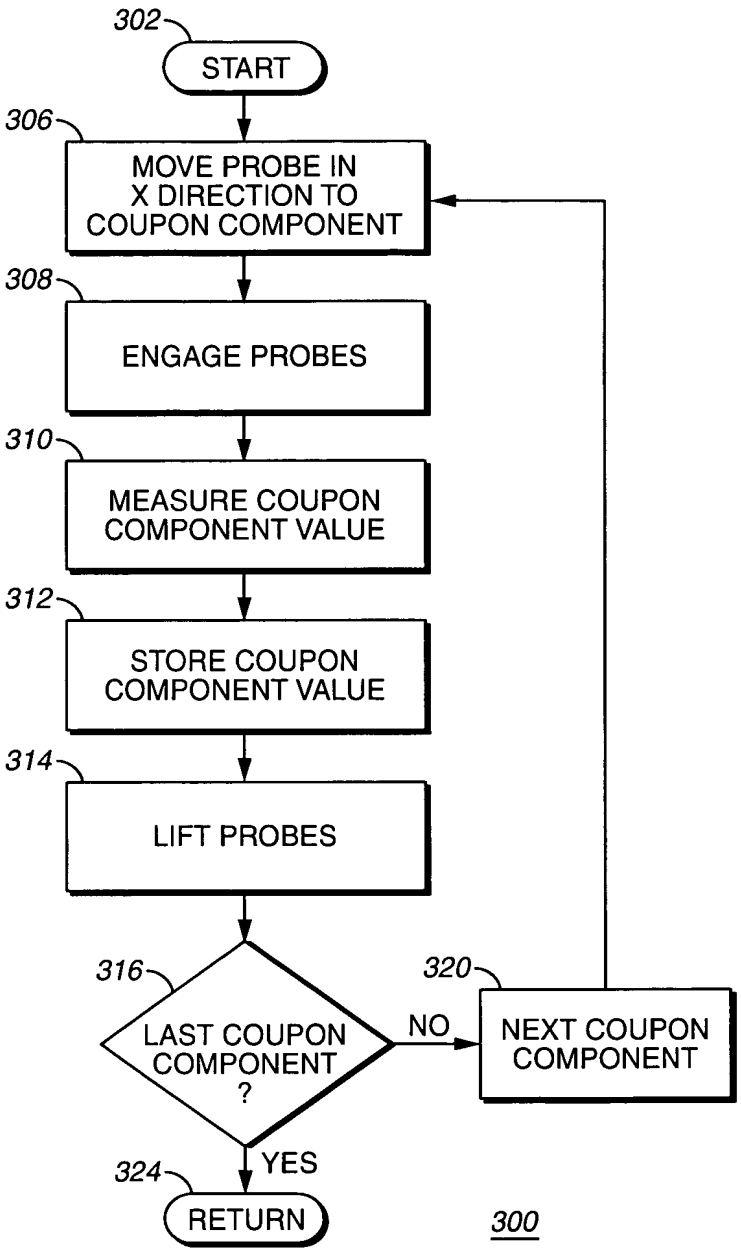
302
START
306
MOVE PROBE IN X DIRECTION TO COUPON COMPONENT
308
ENGAGE PROBES
310
MEASURE COUPON COMPONENT VALUE
312
STORE COUPON COMPONENT VALUE
314
LIFT PROBES
316
LAST COUPON COMPONENT ?
NO
320
NEXT COUPON COMPONENT
YES
324
RETURN
300

FIG. 3

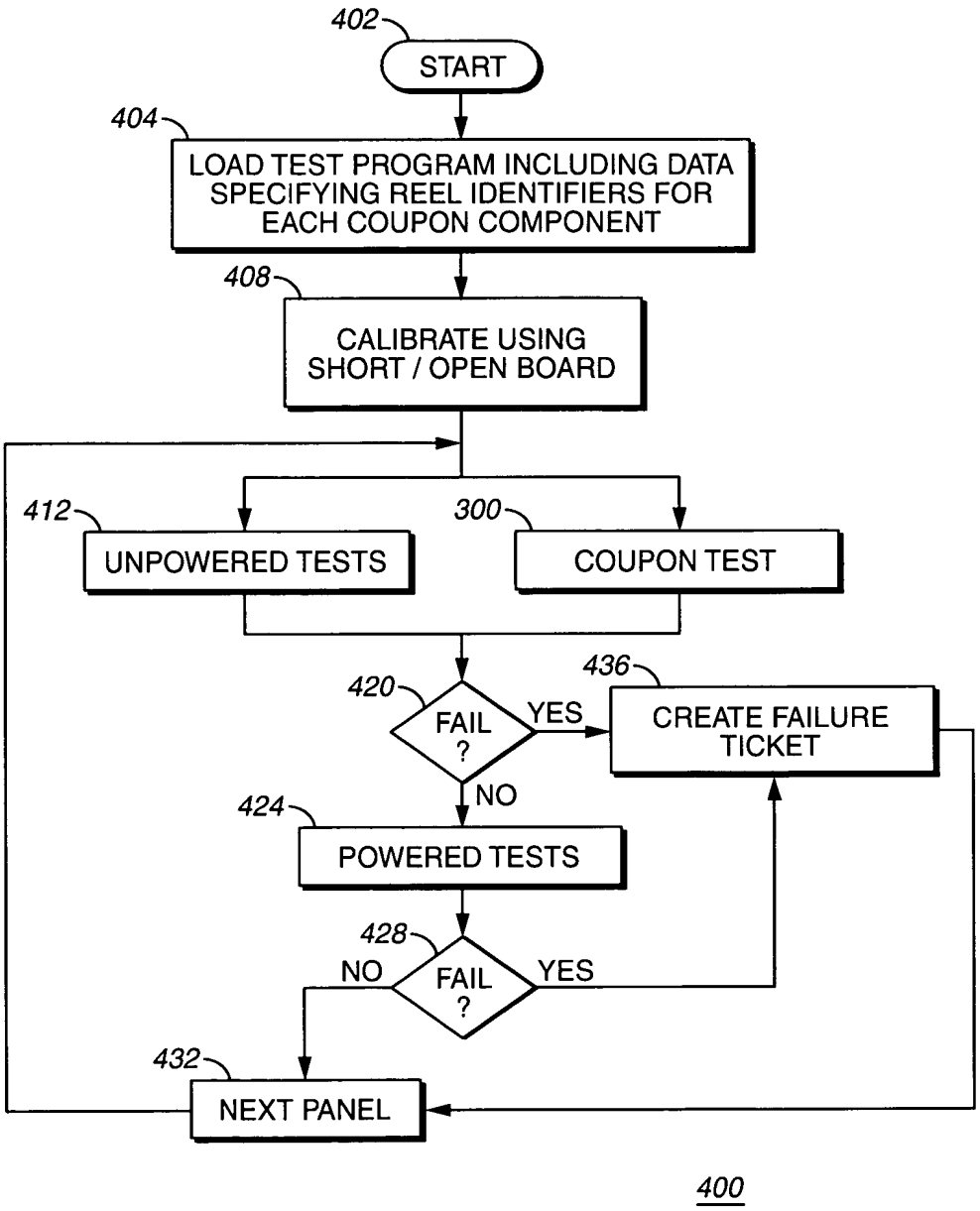
402
START
404
LOAD TEST PROGRAM INCLUDING DATA SPECIFYING REEL IDENTIFIERS FOR EACH COUPON COMPONENT
408
CALIBRATE USING SHORT / OPEN BOARD
412
UNPOWERED TESTS
300
COUPON TEST
420
FAIL ?
YES
436
CREATE FAILURE TICKET
NO
424
POWERED TESTS
428
NO
FAIL ?
YES
432
NEXT PANEL
400

FIG. 4

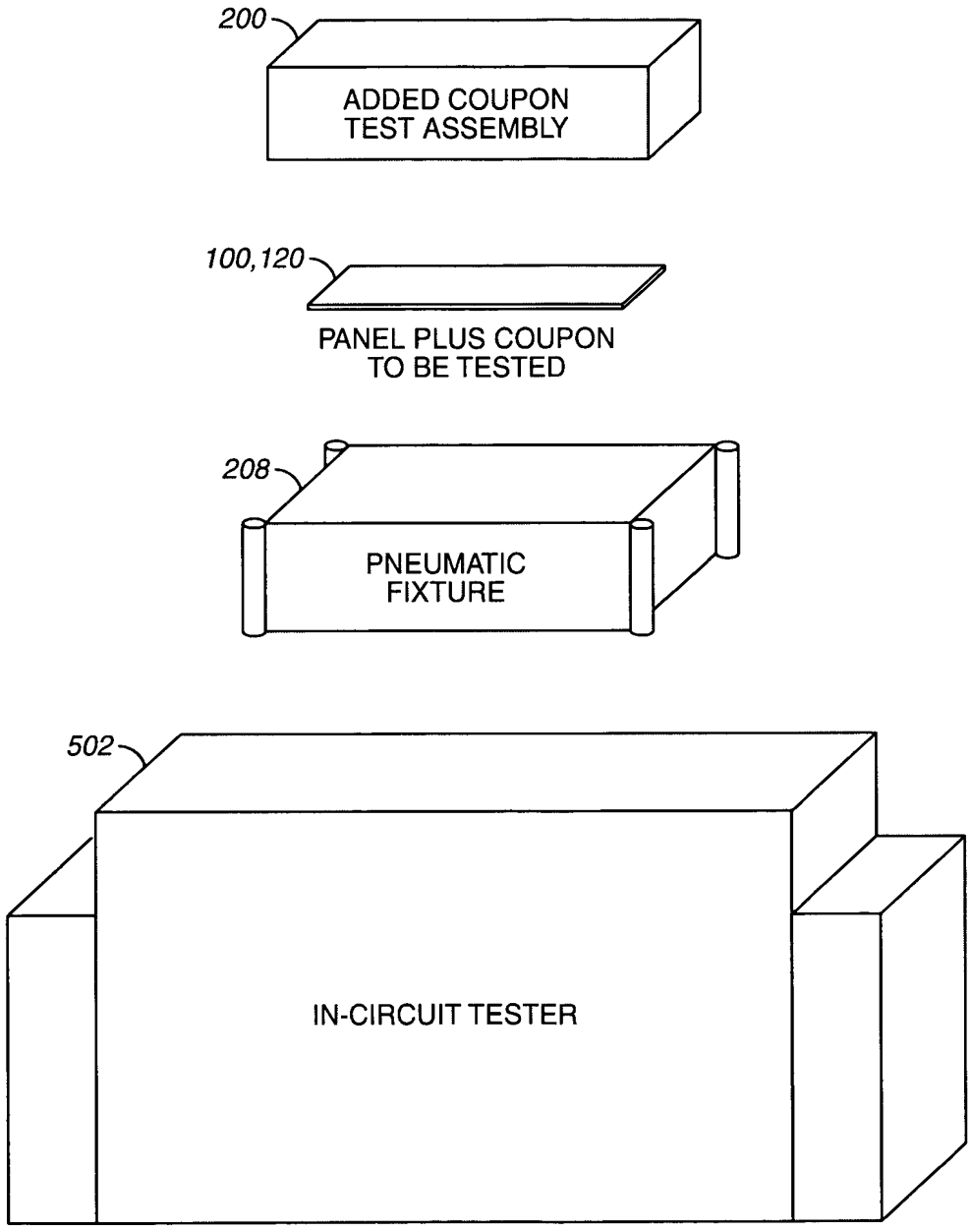
200
ADDED COUPON
TEST ASSEMBLY
100,120
PANEL PLUS COUPON
TO BE TESTED
208
PNEUMATIC
FIXTURE
502
IN-CIRCUIT TESTER

FIG. 5